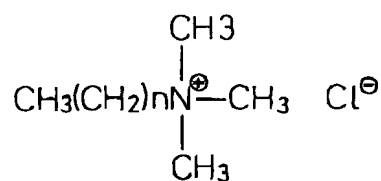
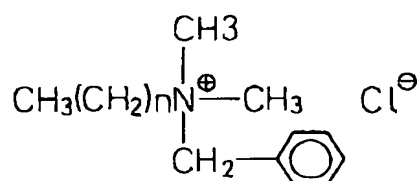


**10/527078****Fig.1****STRUCTURE OF HYDROQUINONE****Hydroquinone (Hq)****STRUCTURES OF SURFACTANTS**

n=17 Octadecyltrimethylammonium Chloride(STAC)

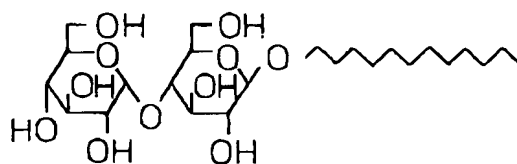
n=15 Hexadecyltrimethylammonium Chloride(CTAC)

n=13 Tetradecyltrimethylammonium Chloride(MTAC)



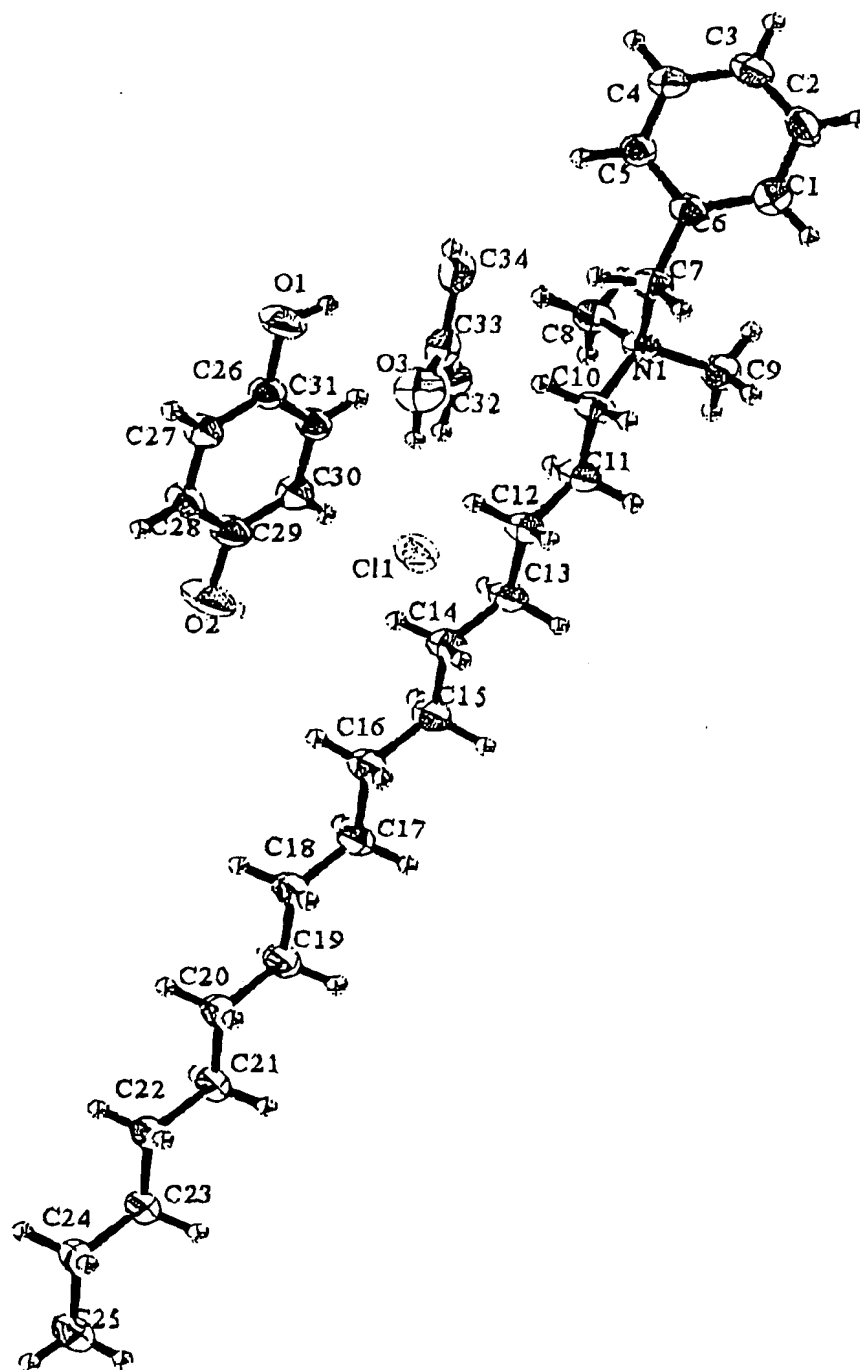
n=15 Hexadecyldimethylbenzylammonium Chloride (CDBAC)

n=13 Tetradecyldimethylbenzylammonium Chloride (BZCL)

**n - Dodecyl -  $\beta$  - D - maltoside (DM)**

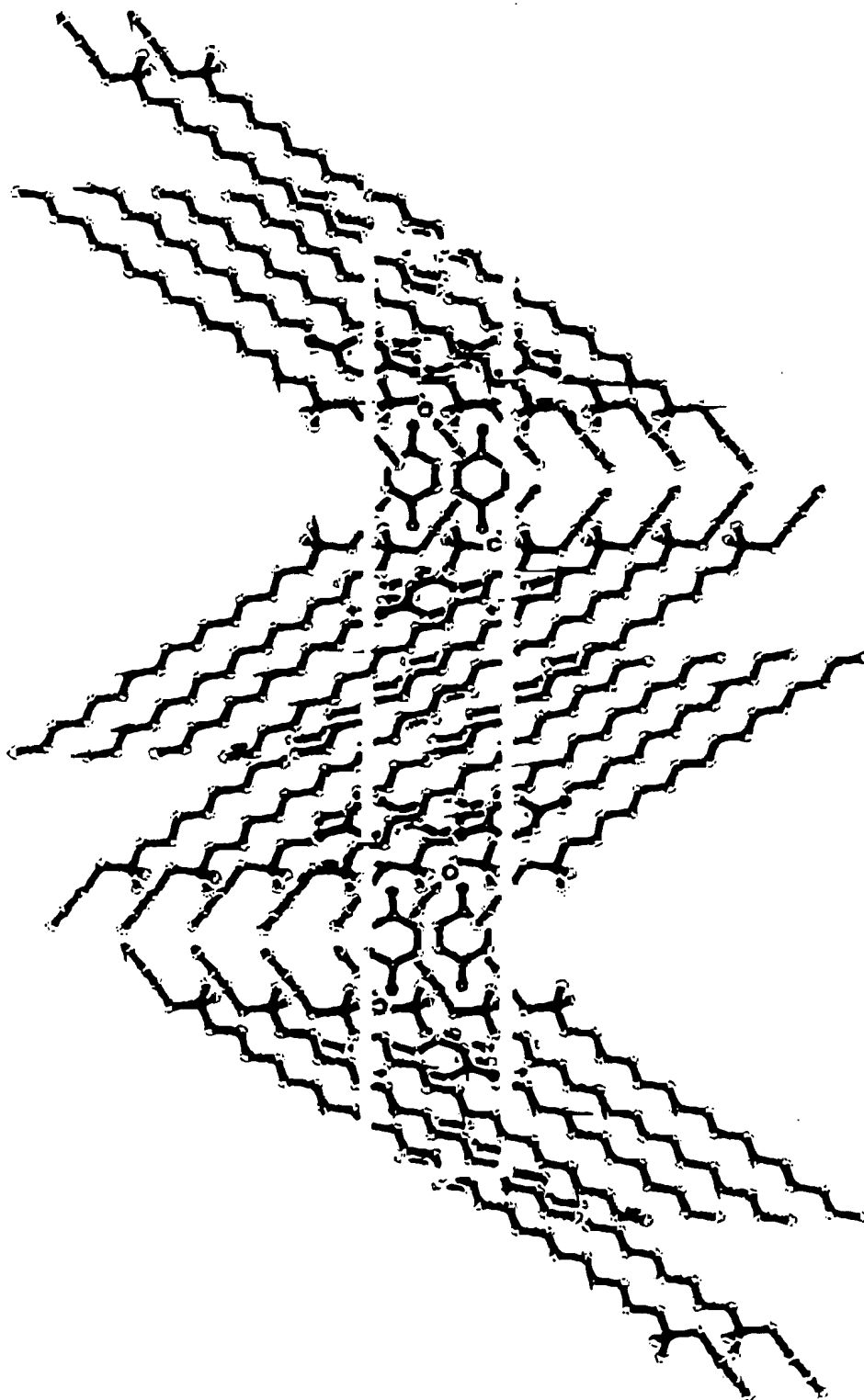
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Fig.2



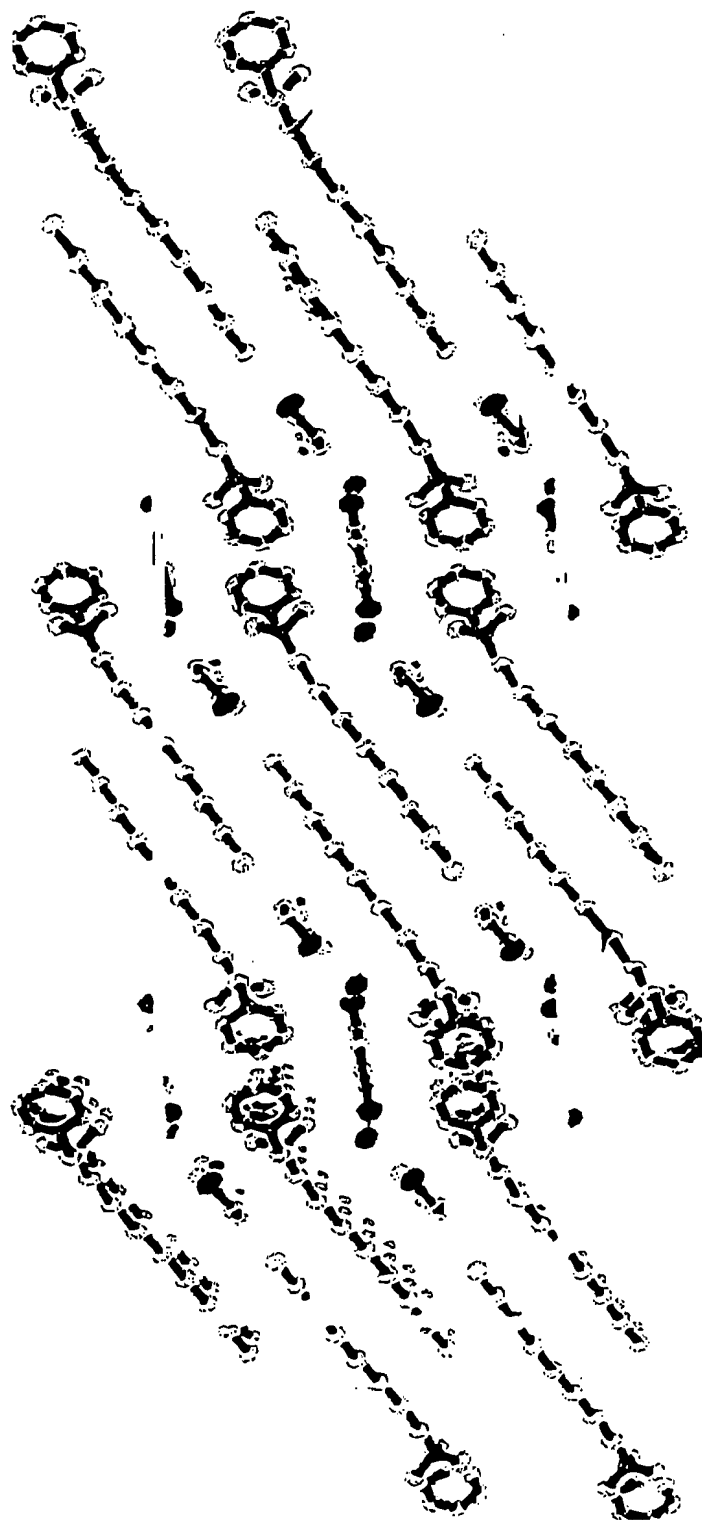
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Fig.3



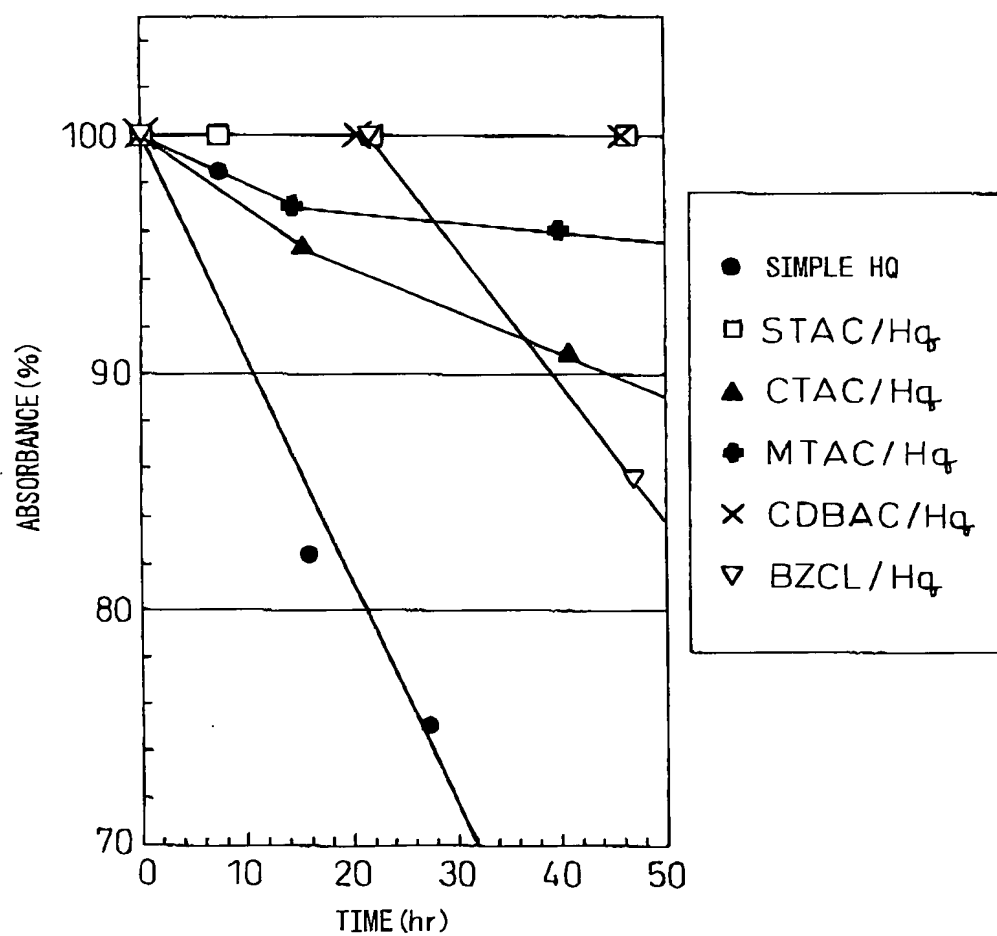
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Fig. 4



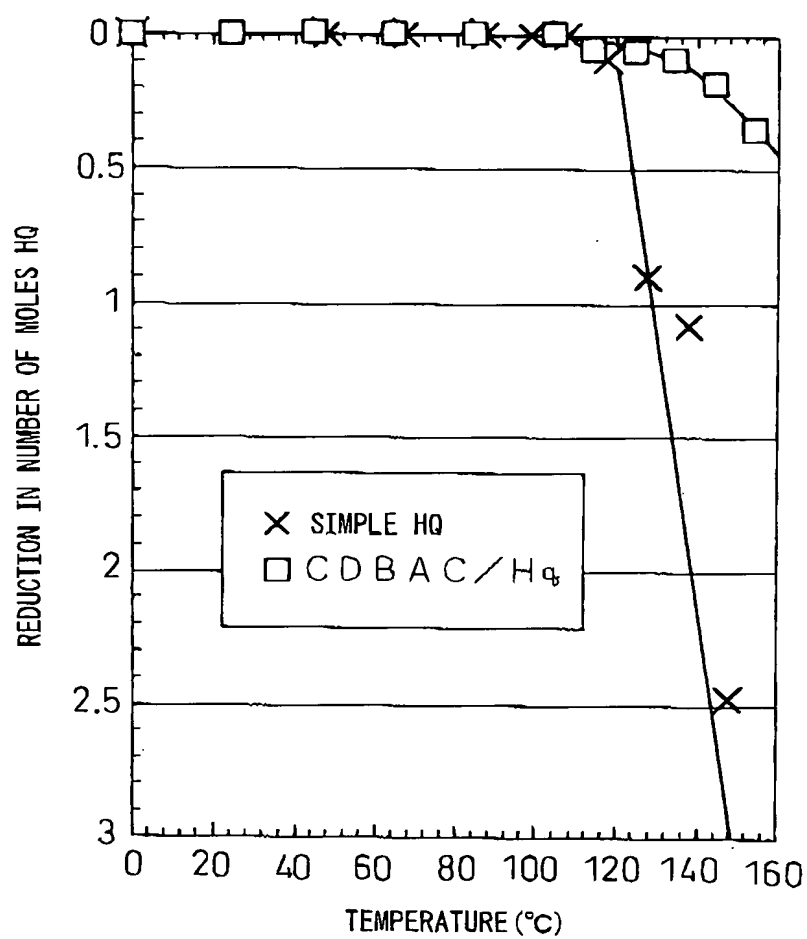
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Fig.5



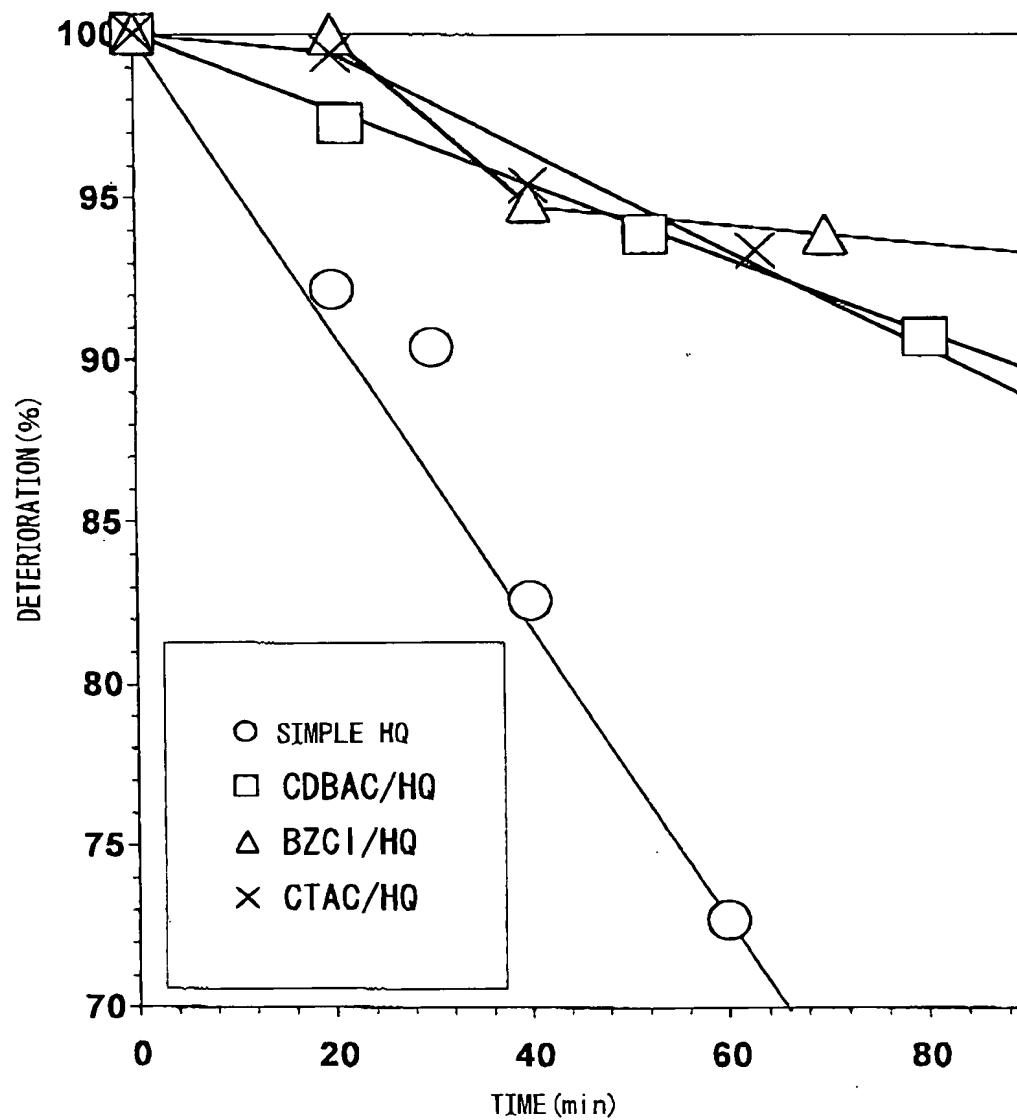
10/527078

Fig.6



10/527078

Fig. 7



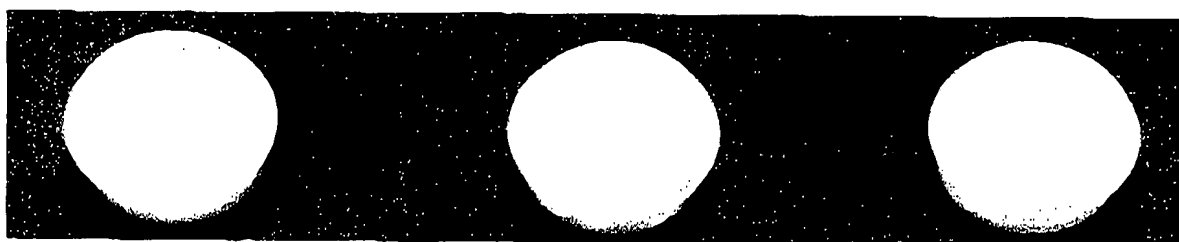
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Fig.8



SIMPLE OINTMENT

CDBAC/HQ 3%  
(SIMPLE OINTMENT,  
AFTER 3 MONTHS)



CTAB/HQ 3%  
(SIMPLE OINTMENT,  
AFTER 3 MONTHS)

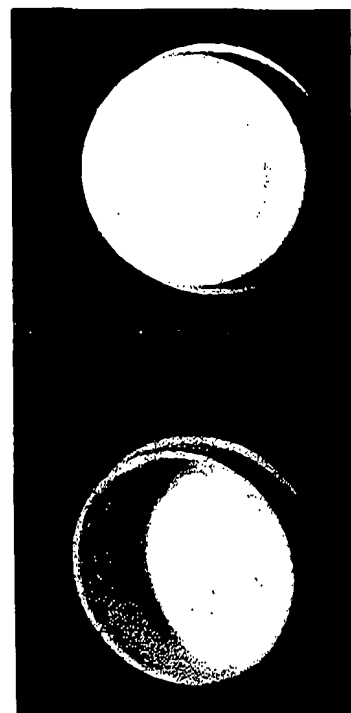
MTAB/HQ 3%  
(SIMPLE OINTMENT,  
AFTER 3 MONTHS)

LTAB/HQ 3%  
(SIMPLE OINTMENT,  
AFTER 3 MONTHS)

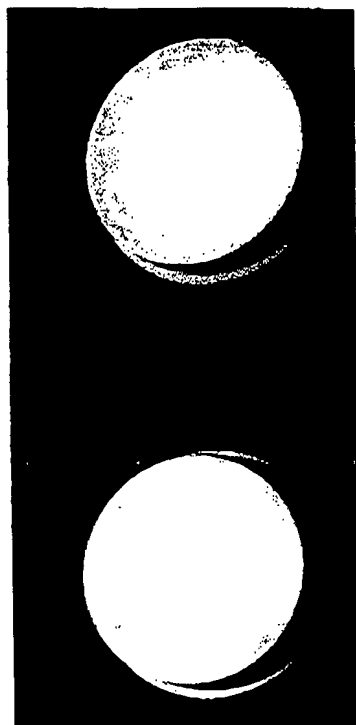


10/527078

Fig.9



HYDROPHILIC OINTMENT

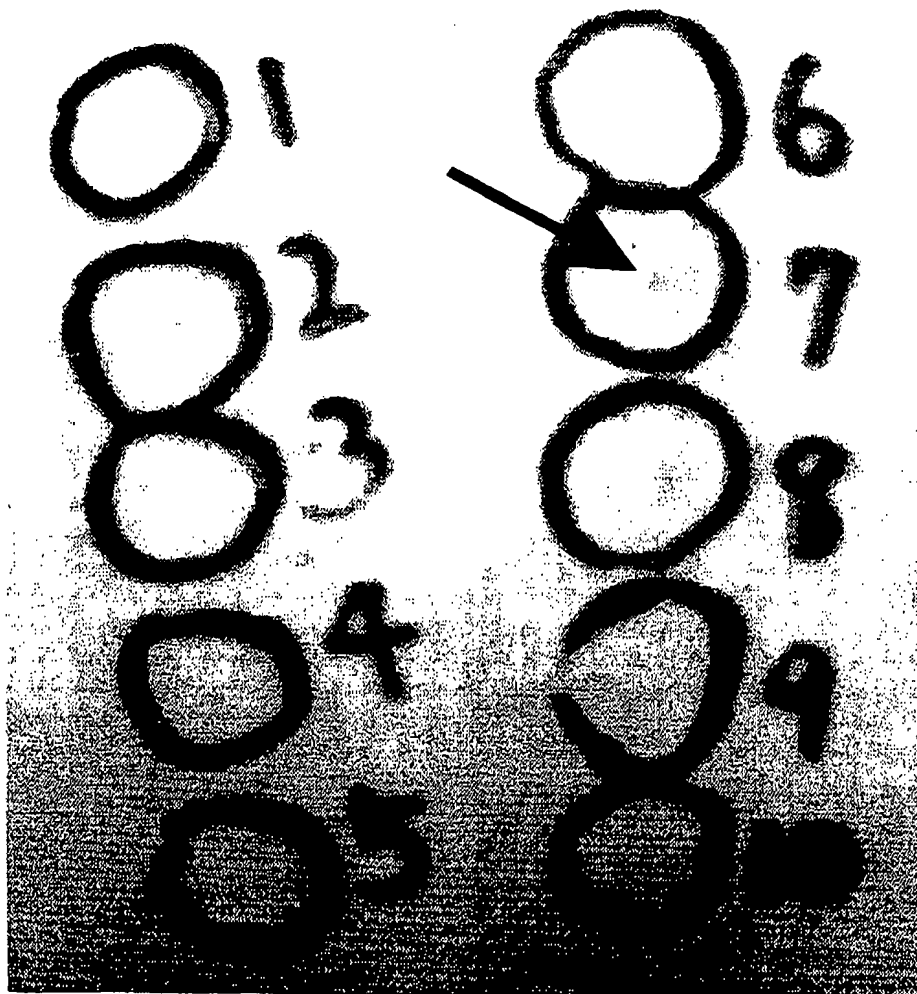


CDBAC/HQ 1%  
(HYDROPHILIC ) AFTER 2 WEEKS  
(OINTMENT )

DM/HQ 2%  
(HYDROPHILIC ) AFTER 2 WEEKS  
(OINTMENT )

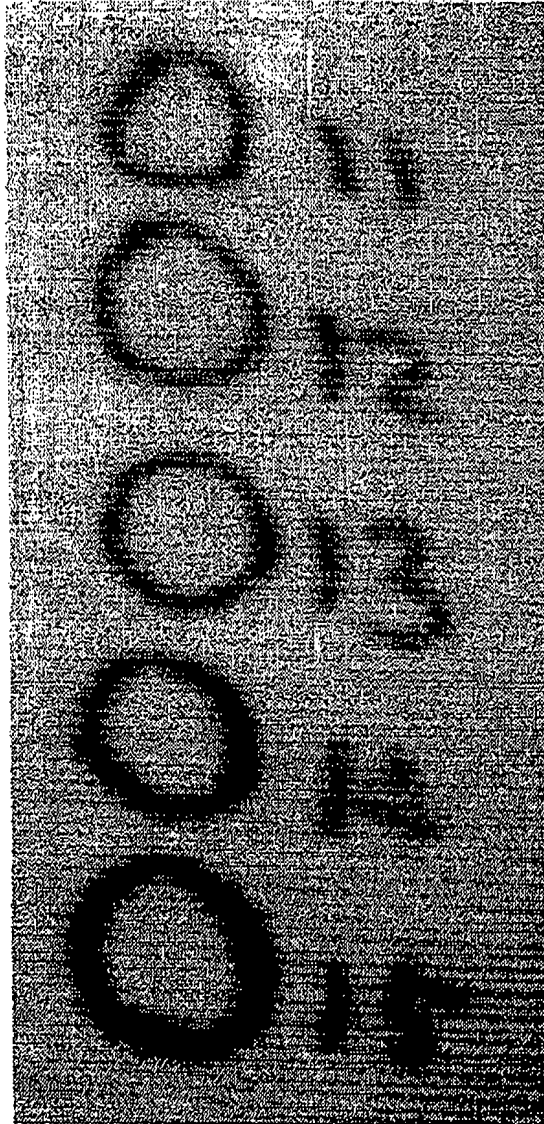
13/527078

Fig.10



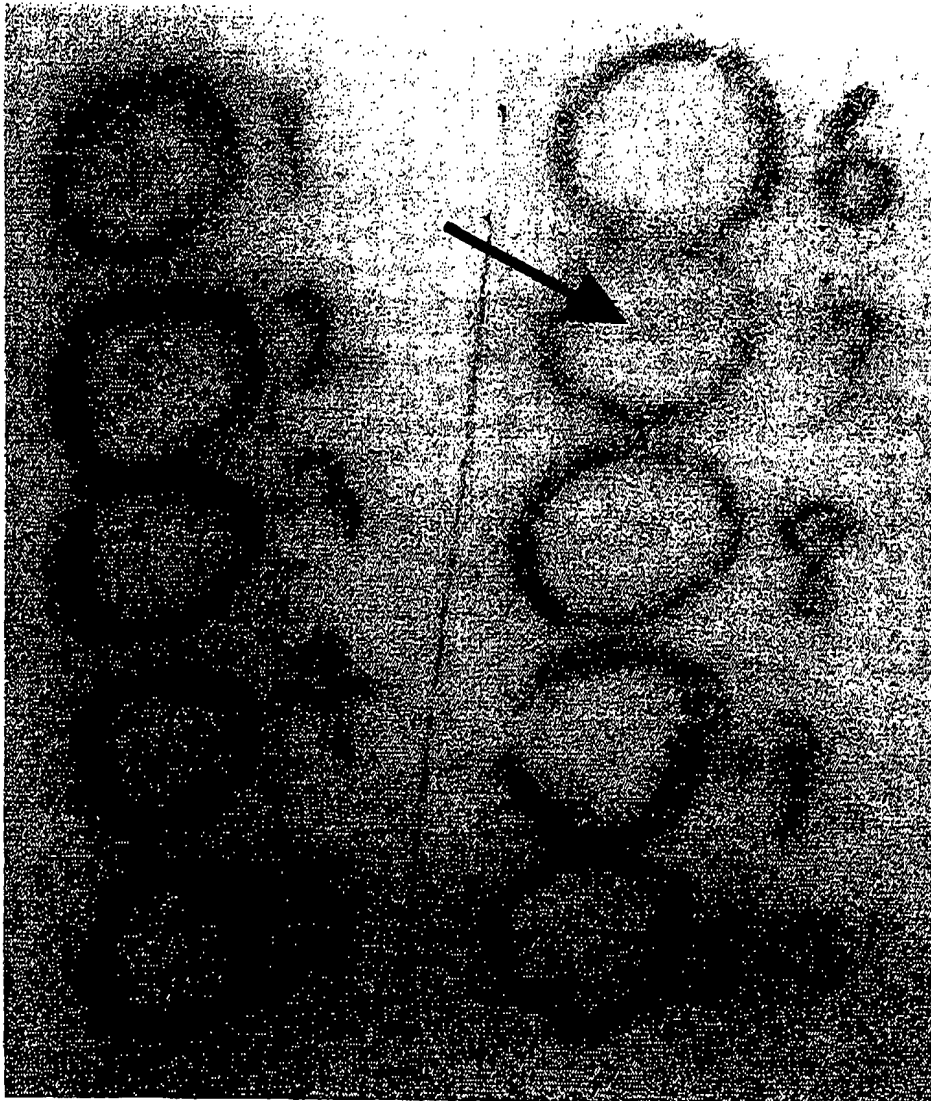
**10/527078**

Fig.11



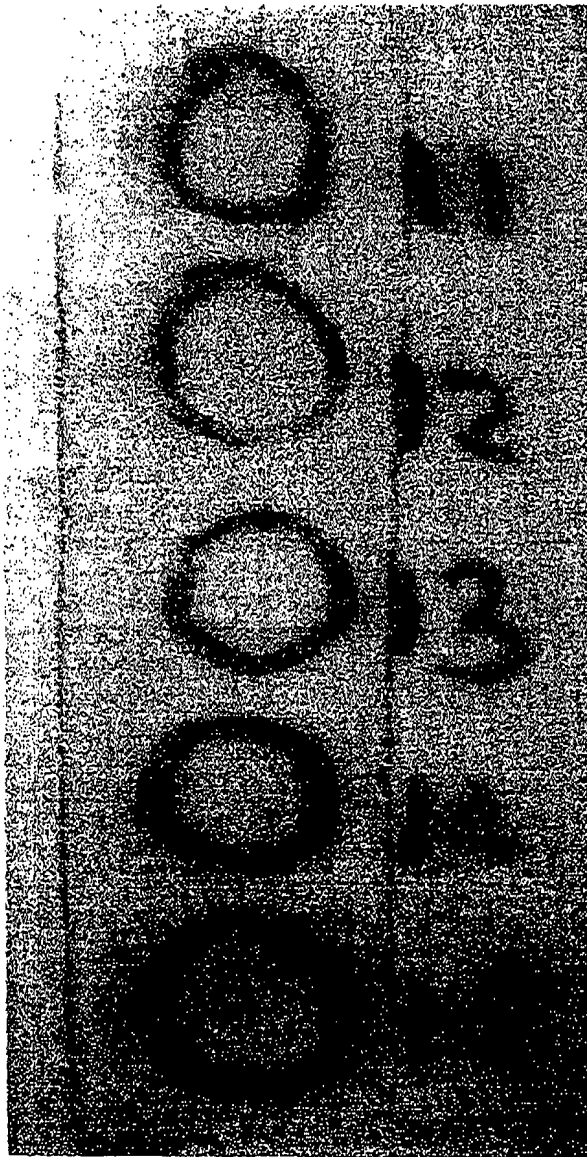
10/527078

Fig.12



10/527078

Fig.13



10/527078

Fig.14



Fig.15



13/527078

Fig.16

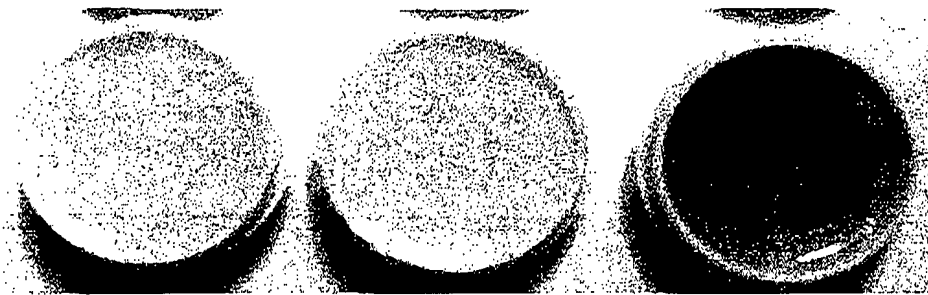
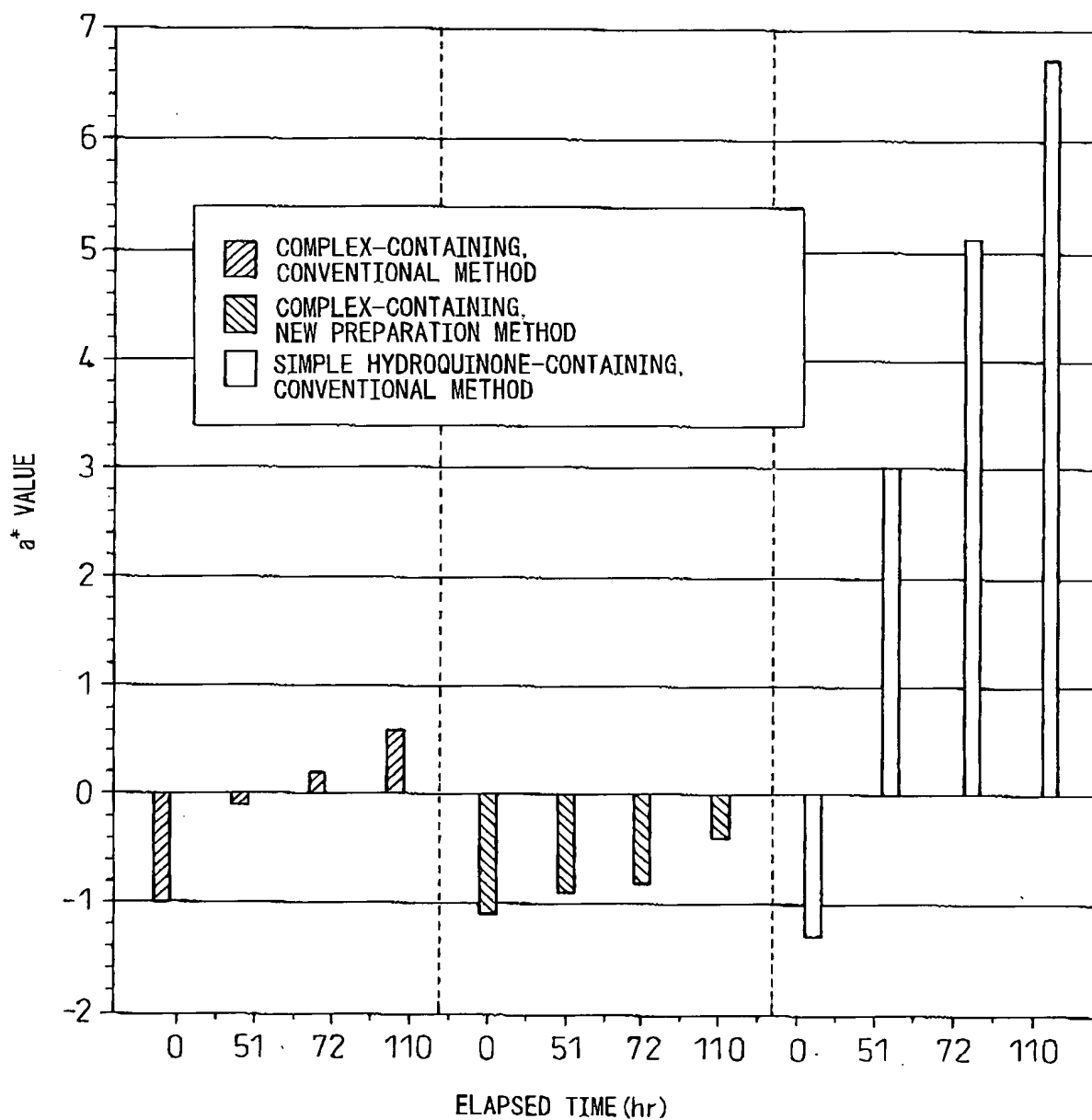


Fig.17



10/527078

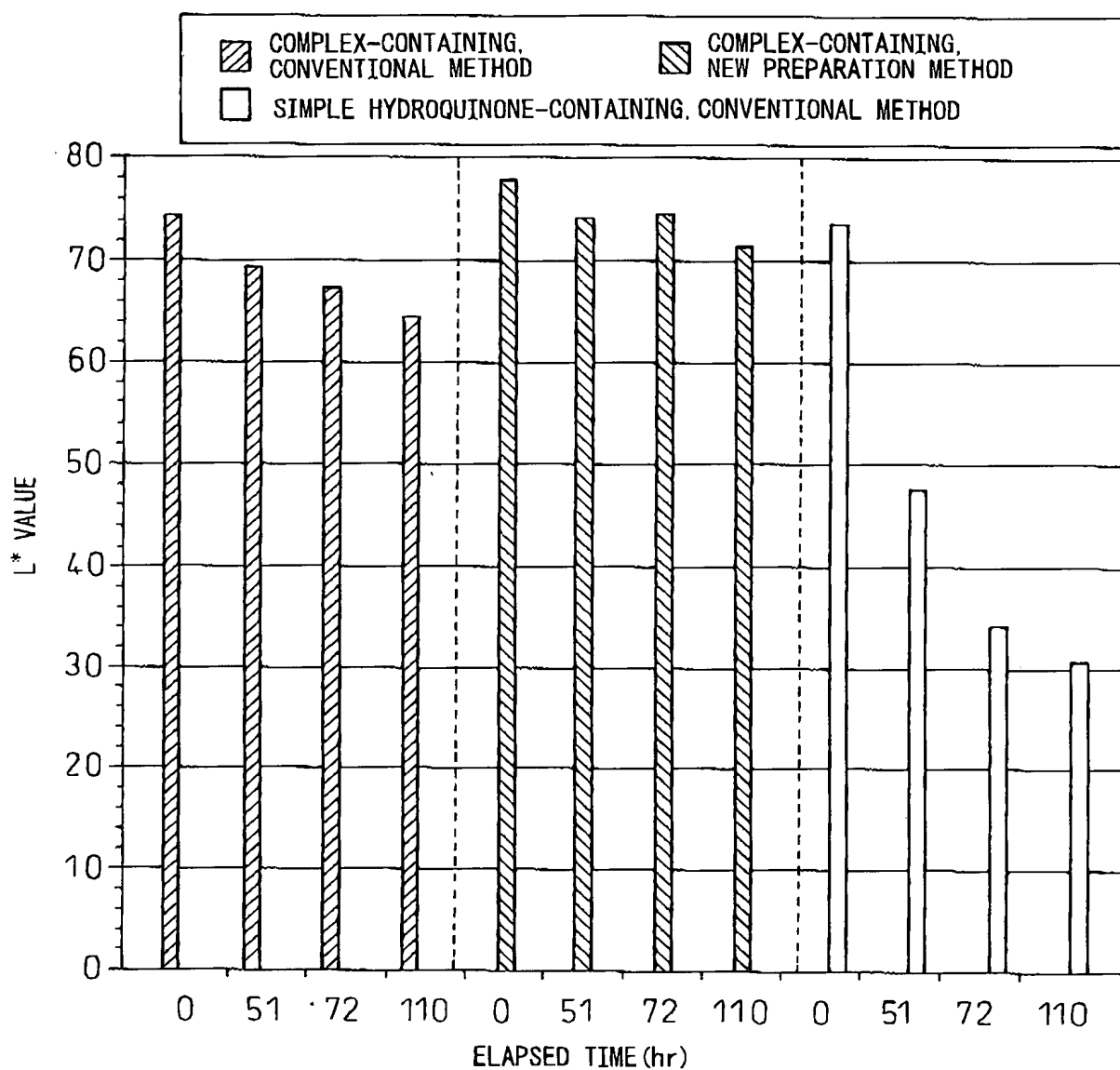
Fig.18





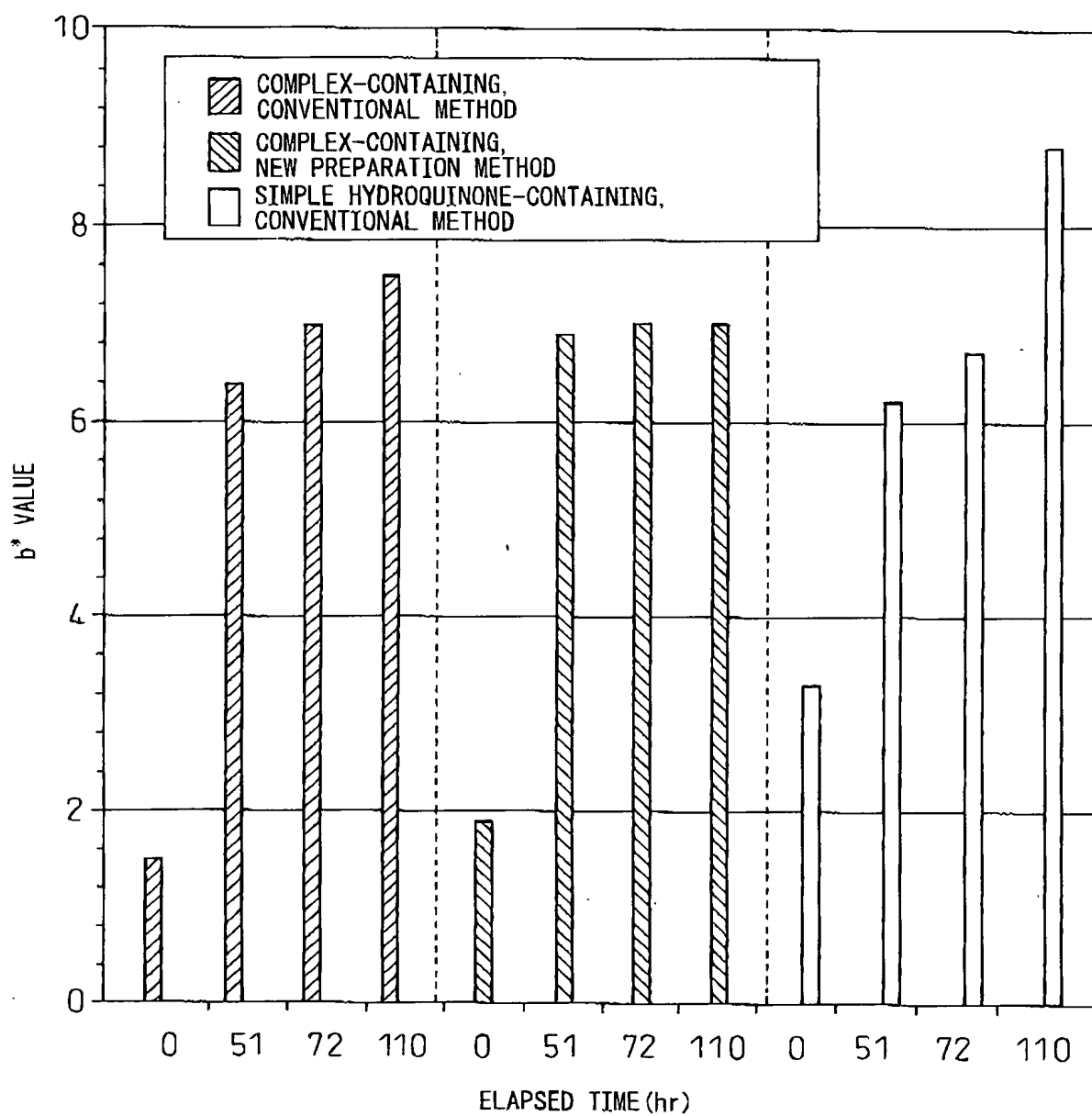
10/527078

Fig.19



10/527078

Fig.20



10/527078

Fig.21

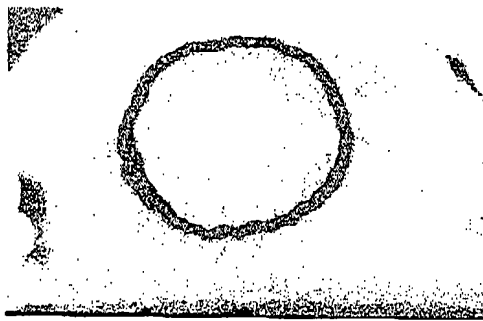


START

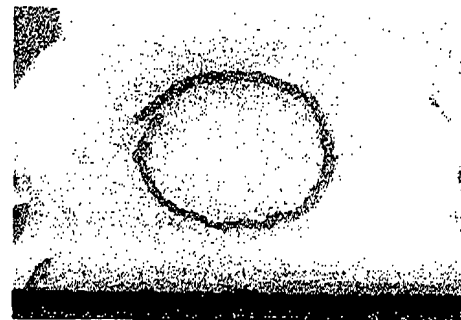


AFTER 20 hrs IRRADIATION

Fig.22

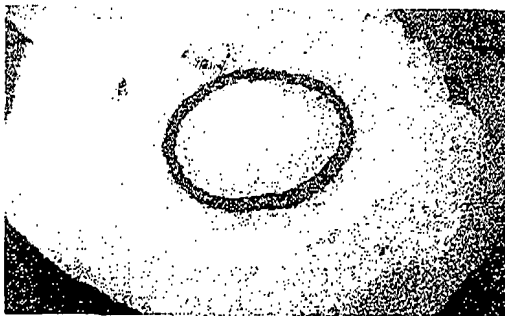


START



AFTER 20 hrs IRRADIATION

Fig.23



START



AFTER 20 hrs IRRADIATION

10/527078

Fig.24

DIFFERENTIAL  
COLORIMETRY  
VALUE

SAMPLE	L* VALUE	a* VALUE	b* VALUE
	START→20hr	START→20hr	START→20hr
(1) COMPLEX-CONTAINING NEW PREPARATION CREAM	85.0 → 79.9	-0.4 → 4.2	4.8 → 6.6
(2) COMPLEX-CONTAINING ORDINARY EMULSIFICATION METHOD CREAM	85.0 → 79.9	-0.4 → 4.8	5.0 → 9.7
(3) SIMPLE HYDROQUINONE -CONTAINING ORDINARY EMULSIFICATION METHOD CREAM	85.2 → 77.7	3.0 → 6.3	5.2 → 12.0

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